Contents

Alpi, A., Tognoni, F., D'Amato, F.: Growth Regulator Levels in Embryo and Suspensor of *Phaseolus coccineus* at Two Stages of Development 153
Bennink, G.J.H., s. Kho, K.F.F., *et al.* 271
Berger, S., Schweiger, H.-G.: Ribosomal DNA in Different Members of a Family of Green Algae (Chlorophyta, Dasycladaceae): an Electron Microscopical Study 49
Bryant, J.A.A., s. Robinson, N.E. 63, 69
Cleland, R.E.: Auxin-induced Hydrogen Ion Excretion: Correlation with Growth, and Control by External pH and Water Stress 233
Coke, L.B., Stuart, K.L., Whittle, Y.G.: Further Effects of Vomifoliol on Stomatal Aperture and on the Germination of Lettuce and the Growth of Cucumber Seedlings. . . 21
Cooke, R.J., s. Spruit, C.J.P., *et al.* 121
Corduan, G.: Regeneration of Anther-derived Plants of *Hyoscyamus niger* L. 27
Covey, S., s. Grierson, D. 77
Crozier, A., s. Nash, L.J. 221
D'Amato, F., s. Alpi, A., *et al.* 153
Dale, P.J.: Pollen Dimorphism and Anther Culture in Barley 213
Dörr, I., s. Kleinig, H., *et al.* 163
Edelman, J., s. Parr, D.R. 111
Elkin, L., Park, R.B.: Chloroplast Fluorescence of C_4 Plants. I. Detection with Infrared Color Film 243
Elkin, L., Park, R.B.: Chloroplast Fluorescence of C_4 Plants. II. A Photographic Technique for Obtaining Relative Fluorescence Yields and Spectra Photographically 187
Elkin, L., Park, R.B.: Chloroplast Fluorescence of C_4 Plants. III. Fluorescence Spectra and Relative Fluorescence Yields of Bundle-Sheath and Mesophyll Chloroplasts . . . 37
Furuya, M., s. Yamamoto, K.T. 177
Grierson, D.: The Hybridisation of [^{3}H] Poly (Uridyclic) Acid to DNA from *Phaseolus areus* Roxb 87
Grierson, D., Covey, S.: Changes in the Amount of Ribosomal RNA and Poly(A)-containing RNA during Leaf Development 77
Humphreys, T.E.: Dinitrophenol-induced Hydrogen-ion Influx into the Maize Scutellum. 1
Jaworski, E.G., s. Thibodeau, P.S. 133
Jones, R.L., s. Paull, R.E. 97
Kendrick, R.E., s. Spruit, C.J.P., *et al.* 121
Kho, K.F.F., Bennink, G.J.H., Wiering, H.: Anthocyanin Synthesis in a White Flowering Mutant of *Petunia hybrida* by a Complementation Technique. 271
Kinsman, L.T., Pinfield, N.J., Stobart, A.K.: A Gibberellin Bioassay Based on Betacyanin Production in *Amaranthus caudatus* Seedlings 149
Kinsman, L.T., Pinfield, N.J., Stobart, A.K.: The Hormonal Control of Amaranthin Synthesis in *Amaranthus caudatus* Seedlings 207
Kleinig, H., Thönes, J., Dörr, I., Kollmann, R.: Filament Formation *in vitro* of a Sieve Tube Protein from *Cucurbita maxima* and *Cucurbita pepo* 163
Kollmann, R., s. Kleinig, H., *et al.* 163
Krause, G.H., Santarius, K.A.: Relative Thermostability of the Chloroplast Envelope . . 285
Nash, L.J., Crozier, A.: Translocation and Metabolism of [^{3}H]Gibberellins by Light-grown *Phaseolus coccineus* Seedlings 221
Park, R.B., s. Elkin, L. 37, 187, 243
Parr, D.R., Edelman, J.: Release of Hydrolytic Enzymes from the Cell Walls of Intact and Disrupted Carrot Callus Tissue 111
Pate, J.S., s. Sharkey, P.J. 251
Paull, R.E., Jones, R.L.: Studies on the Secretion of Maize Root-cap Slime. III. Histochemical and Autoradiographic Localization of Incorporated Fucose 97

Peveling, E., s. Robenek, H. 281
Pinfield, N.J., s. Kinsman, L.T., *et al.* 149, 207
Reid, D.M., s. Wample, R.L. 263
Robenek, H., Peveling, E.: Veränderungen des Plasmalemmas während der Zellwandregeneration an isolierten Protoplasten aus dem Sproßkallus von *Skimmia japonica* Thunb. 281
Robinson, N.E., Bryant, J.A.: Onset of Nucleic Acid Synthesis during Germination of *Pisum sativum* L. 63
Robinson, N.E., Bryant, J.A.: Development of Chromatin-bound and Soluble DNA Polymerase Activities during Germination of *Pisum sativum* L. 69
Sachs, T.: The Induction of Transport Channels by Auxin 201
Santarius, K.A., s. Krause, G.H. 285
Sargent, D.F., Taylor, C.P.S.: On the Respiratory Enhancement in *Chlorella pyrenoidosa* by Blue Light 171
Schmidt, A.: Inhibition of the Adenosine-5′-phosphosulfate-Sulfotransferase Activity from Spinach, Maize, and *Chlorella* by Adenosine-5′-monophosphate 93
Schweiger, H.-G., s. Berger, S. 49
Sharkey, P.J., Pate, J.S.: Selectivity in Xylem to Phloem Transfer of Amino Acids in Fruiting Shoots of White Lupin (*Lupinus albus* L.) 251
Sievers, A., s. Volkmann, D. 11
Spruit, C.J.P., Kendrick, R.E., Cooke, R.J.: Phytochrome Intermediates in Freeze-dried Tissue 121
Stobart, A.K., s. Kinsman, L.T., *et al.* 149, 207
Stuart, K.L., s. Coke, L.B., *et al.* 21
Taylor, C.P.S., s. Sargent, D.F. 171
Thibodeau, P.S., Jaworski, E.G.: Patterns of Nitrogen Utilization in the Soybean 133
Thönes, J., s. Kleinig, H., *et al.* 163
Tognoni, F., s. Alpi, A., *et al.* 153
Volkmann, D., Sievers, A.: Wirkung der Inversion auf die Anordnung des Endoplastischen Reticulums und die Polarität von Statocyten in Wurzeln von *Lepidium sativum* . . . 11
Wample, R.L., Reid, D.M.: Effect of Aeration on the Flood-induced Formation of Adventitious Roots and other Changes in Sunflower (*Helianthus annuus* L.) 263
Whittle, Y.G., s. Coke, L.B., *et al.* 21
Wiering, H., s. Kho, K.F.F., *et al.* 271
Yamamoto, K.T., Furuya, M.: Photoreversible Binding *in vitro* of Cytosolic Phytochrome to Particulate Fraction Isolated from Pea Epicotyls 177